

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : D. Amnon Silverstein

Art Unit : 2612

Serial No. : 09/484,667

Examiner : Rosendale, Matthew L.

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Title : POINTING DEVICE FOR DIGITAL CAMERA DISPLAY

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

EXHIBIT D

**CERTIFICATE OF MAILING**

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## Monthly Reports - February 1999

### Department Highlights

**Best Paper  
Award for Amir  
Said**

### Products

### Staffing

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**PROJECT:**

**OBJECTIVE:**

**MANAGER:**

**DATES:****STAFF:****DISCUSSION**

**CAST:** A number of improvements were made to CAST in order to better meet the needs expressed by GHC. A new motion estimator was developed to constrain the estimates to only rotation and translation. This will help produce better page-accurate scanning when a camera is held at a fixed distance from the page. A flexible hardware for maintaining a camera at a fixed distance from a page while scanning was designed and implemented. OCR testing was performed. That involved writing software for binarization of gray scale images. The results of tests showed that CAST can produce up to 300 dpi equivalent scanning, with very good OCR accuracy.

A meeting was held at GHC between members of the CAST team and the New Business Creation group at GHC. The CAST team showed the results of the work performed this past month and the GHC team expressed a desire to continue pursuing CAST and to explore productization strategies.

**GOALS FOR  
NEXT MONTH**

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**Display Image Quality:** We completed a perceptual analysis of ICBD's gamma design for Tomahawk for Doug Sojourner and Hal Christensen.

(<http://hplimg1.hpl.hp.com/~xmei/gammaAnalysis/tomahauk.html> ).

We created Matlab functions to calculate color temperature and color rendering index for Mark Hueschen (HPL) who is color balancing a white LED lamp (<http://hplimg1.hpl.hp.com/~xmei/LED/criTools.html> ).

We are designing an optical device that uses a kaleidoscope to simulate a large sheet of diodes from only 9 diodes. The simulated sheet of diodes will

be optically combined with a CRT display in future investigations of flicker sensitivity. We created a web page that calculates flicker visibility (<http://hplimg1.hpl.hp.com/~amnon/projects/Flicker>). We created simulated images of text/ photos and graphics to illustrate an idea that Dr. Hunt described to us for a two-channel chrominance/luminance display. We met with Neela Gaddis to plan a human factors study of the next generation of eyeglass displays. We discussed our ideas with Professor Clif Shor at UC Berkeley. A second meeting is planned.

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**PUBLICATIONS & REPORTS:**

**PATENTS:**

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